

CLAIMS

1. A method for scheduling transmission on a link in a communication
 2 system, comprising:
 transmitting data on a first link in the communication system; and
 4 transmitting scheduling information on the first link in the communication
 system.

2. The method as claimed in claim 1, wherein said transmitting scheduling
 2 information on the first link in the communication system comprises:
 transmitting scheduling information together with said transmitted data on
 4 the first link in the communication system.

3. A method for scheduling transmission on a link in a communication
 2 system, comprising:
 transmitting data on a first link in the communication system; and
 4 scheduling transmission on the link in the communication system in
 accordance with a reception of said transmitted data on the first link.

4. The method as claimed in claim 3, wherein said scheduling transmission
 2 on the link in the communication system in accordance with a reception of said
 transmitted data on the first link comprises:
 4 scheduling transmission on the link in the communication system at a
 first time instance delayed by a pre-determined amount from a time instance of
 6 the reception of said transmitted data on the first link.

5. The method as claimed in claim 3 further comprising:
 2 ascertaining the link capacity at a base station expecting said scheduled
 transmission on the link in the communication system in accordance with the
 4 reception of said transmitted data on the first link; and
 transmitting, on the first link in the communication system, a change to at
 6 least one parameter of said scheduled transmission when said ascertained link
 capacity does not support said scheduled transmission.

6. The method as claimed in claim 5, wherein said transmitting, on the first
2 link in the communication system, a change to at least one parameter of said
scheduled transmission when said ascertained link capacity does not support
4 said scheduled transmission comprises:

transmitting, on the first link in the communication system, a change to at
6 least one parameter of said scheduled transmission together with said
transmitted data.

7. A method for scheduling transmission on a link in a communication
2 system, comprising:

ascertaining the link capacity at a base station expecting a pre-scheduled
4 transmission of data on the link; and
proceeding in accordance with said ascertained link capacity.

8. The method as claimed in claim 7, wherein said proceeding comprises:
2 abstaining from transmitting scheduling information on the first link when
said ascertained link capacity supports the pre-scheduled transmission of data.

9. The method as claimed in claim 8 further comprising:
2 transmitting re-scheduling information on the first link when said
ascertained link capacity does not support the pre-scheduled transmission of
4 data.

10. The method as claimed in claim 7, wherein said proceeding comprises:
2 transmitting, on the first link, authorization for the pre-scheduled
transmission of data when said ascertained link capacity supports the pre-
4 scheduled transmission of data.

11. The method as claimed in claim 10 further comprising:
2 transmitting re-scheduling information on the first link when said
ascertained link capacity does not support the pre-scheduled transmission of
4 data.

12. An apparatus for scheduling transmission on a link in a communication
2 system, comprising:
a transmitter;
4 a processor; and
a storage medium coupled to the processor and containing a set of
6 instructions executable by the processor to cause the transmitter to transmit
data on a first link in the communication system, and cause the transmitter to
8 transmit scheduling information on the first link in the communication system.

13. The apparatus as claimed in claim 12, wherein the set of instructions
2 executable by the processor to cause the transmitter to transmit data on a first
link in the communication system comprises a set of instructions executable by
4 the processor to cause the transmitter to transmit the scheduling information
together with the transmitted data on the first link in the communication system.

14. An apparatus for scheduling transmission on a link in a communication
2 system, comprising:
a transmitter configured to transmit data on a first link in the
4 communication system;
a processor; and
6 a storage medium coupled to the processor and containing a set of
instructions executable by the processor to schedule transmission on the link in
8 the communication system in accordance with a reception of the transmitted
data on a first link.

15. The apparatus as claimed in claim 14, wherein the set of instructions
2 executable by the processor to schedule transmission on the link in the
communication system in accordance with a reception of the transmitted data
4 on a first link comprises a set of instructions executable by the processor to
schedule transmission on the link in the communication system at a time
6 instance delayed by a pre-determined amount from a time instance of the
reception of the transmitted data on the first link.

16. The apparatus as claimed in claim 14 further comprising:

2 a second processor; and

a second storage medium coupled to the second processor and
4 containing a set of instructions executable by the second processor to ascertain
the link capacity at a base station expecting the scheduled transmission on the
6 link in the communication system in accordance with the reception of the
transmitted data on the first link; and cause the transmitter to transmit, on the
8 first link in the communication system, a change to at least one parameter of the
scheduled transmission when the ascertained link capacity does not support the
10 scheduled transmission.

17. The apparatus as claimed in claim 16, wherein the set of instructions
2 executable by the second processor to cause the transmitter to transmit, on the
first link in the communication system, a change to at least one parameter of the
4 scheduled transmission when the ascertained link capacity does not support the
scheduled transmission comprises a set of instructions to cause the transmitter
6 to transmit, on the first link in the communication system, a change to at least
one parameter of the scheduled transmission together with the transmitted data.

18. An apparatus for scheduling transmission on a link in a communication
2 system, comprising:

a processor;

4 a storage medium coupled to the processor and containing a set of
instructions executable by the processor to ascertain the link capacity at a base
6 station expecting transmission of a pre-scheduled data on the link, and proceed
in accordance with the ascertained link capacity.

19. The apparatus as claimed in claim 18 further comprising a transmitter,
2 wherein the set of instructions executable by the processor to proceed in
accordance with the ascertained link capacity comprises a set of instructions
4 executable by the processor to abstain from transmitting scheduling information
on the first link when the ascertained link capacity supports the pre-scheduled
6 transmission of data.

20. The apparatus as claimed in claim 19, wherein the set of instructions
2 further comprises a set of instructions executable by the processor to cause the
transmitter to transmit re-scheduling information on the first link when the
4 ascertained link capacity does not support the pre-scheduled transmission of
data.

21. The apparatus as claimed in claim 18 further comprising a transmitter,
2 wherein the set of instructions executable by the processor to proceed in
accordance with the ascertained link capacity comprises a set of instructions
4 executable by the processor to cause the transmitter to transmit authorization
for the pre-scheduled transmission of data on the first link when the ascertained
6 link capacity supports pre-scheduled transmission of data.

22. The apparatus as claimed in claim 21, wherein the set of instructions
2 further comprises a set of instructions executable by the processor to cause the
transmitter to transmit re-scheduling information on the first link when the
4 ascertained link capacity does not support the pre-scheduled transmission of
data.

09900272-070604